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Regional Water Providers Consortium Population, Housing Unit, and Household Estimates 1990 to 2013

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Regional Water Providers Consortium
Population, Housing Unit, and Household Estimates
1990 to 2013



FEBRUARY 2014

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Prepared By
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Portland State University

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FEBRUARY, 2014

Background

Water providers have an ongoing need for estimates and forecasts of the total population and the number of housing units and households within their service areas. While some of the water providers within Clackamas, Multnomah, and Washington counties have obtained this information periodically on an individual basis, a complete and systematic set of estimates and forecasts for all members of the Regional Water Providers Consortium has not been prepared for nearly 10 years.

The Portland Water Bureau (PWB), on behalf of the Regional Water Providers Consortium, requested that the Portland State University Population Research Center (PRC) update service area boundaries and prepare population, housing unit, and household estimates and forecasts for the water service areas of the municipalities and water districts in the Consortium, as well as the wholesale customers of the PWB that are not Consortium members.

This report includes a brief description of the procedures and methodologies used to update the boundaries and prepare estimates for each year from 1990 to 2013. The Appendix contains these estimates in detail for each provider. A future report will include population, housing unit, and household forecasts for each year from 2014 to 2045.

Service Area Boundaries

PRC collected boundary information directly from water providers in 2013, using an FTP site established by the Regional Water Providers Consortium, as well as by e-mail communication. In many cases, the boundaries initially submitted by the providers implied overlaps or gaps between service areas. Reasons for these inconsistencies included: differences between legal descriptions and physical service areas, wheeling agreements under which one agency provides water to another agency's customers, and municipal annexations or district boundary adjustments that had not yet been incorporated in the boundary files maintained by each affected provider. PRC prepared maps of these overlaps and gaps for agencies to review and requested feedback. This review generally resulted in adjustments that assigned parcels to the agency that was currently providing their water.

For water providers that did not submit boundary information to PRC, including PWB small wholesale customers and several small cities and districts, PRC used boundaries provided by PWB or from Metro's Regional Land Information System (RLIS). These were adjusted as needed to reflect boundaries of

adjacent providers who did submit updated information. The boundaries were finalized after the review was completed and were used for producing the estimates.

It is important to understand that the estimates for all years are based on 2013 boundaries. Therefore, if a provider's service area has changed during the historic period, the estimates do not represent the population of the provider's previous service area. For example, several years ago PRC estimated the 2005 population of the West Slope Water District (WSWD) at 11,060. The estimated 2005 population of WSWD presented in this report is 10,056, a difference of about 1,000 residents. Compared with the boundaries used when the previous estimate was prepared, the WSWD's 2013 service area is smaller, primarily due to annexation by the City of Beaverton.

Annual Estimates¹ — Data Sources and Process

Benchmark decennial estimates were produced for each service area for 1990, 2000, and 2010, using census data and a parcel-level housing inventory. Next, postcensal estimates were prepared for the years 2011, 2012, and 2013. Postcensal estimates rely on the 2010 Census benchmark, the housing unit inventory, building permit data, and the PRC's annual county and city population estimates. Finally, intercensal estimates were prepared for the years 1991 to 1999 and 2001 to 2009, using the 1990, 2000, and 2010 census benchmarks and the housing unit inventory. Each of these steps and the data sources are described in more detail below.

Housing Unit Inventory

A new geographic data layer that PRC developed specifically for this project was an essential input for each step of the estimate process. We used the taxlot and multifamily housing inventory from RLIS to create one point for each housing unit in Clackamas, Multnomah, and Washington counties. The points align with taxlots, enabling more precise allocation of housing units than is possible with coarser census statistical areas. The inventory maintains the year built information from the RLIS datasets, and many of the records that were missing year built information in the RLIS data were updated with permit data as available or through additional research. The number of housing units by year built was compiled by water provider service area for use in the decennial, postcensal, and intercensal models.

¹ Decennial means every ten years, and refers to the federal census conducted in years ending in zero (e.g., 2010). The census data are from enumerations (counts), but the decennial figures for water provider service areas are characterized as estimates due to the allocation of published census data to non-standard geographic areas. Postcensal estimates are made after a census, using the most recent census as a baseline, while intercensal estimates are made for the years between two censuses, using results of both censuses.

Decennial Estimates

The smallest geographic areas for which data is published from the censuses conducted every 10 years are census blocks. Census blocks are “bounded by visible features such as roads, streams, and railroad tracks, and by nonvisible boundaries such as property lines, city, township, school district, county limits and short line-of-sight extensions of roads.”² In urban areas, most census blocks are identical to city blocks, bounded on all sides by streets.

The characteristics required for the estimates — total population (POP), household population (HHPOP), group quarters population (GQPOP), total housing units (HU), and total households (HH) — are published for every block.³ These block-level characteristics were aggregated to 2013 water provider service areas from 1990, 2000, and 2010 census files. However, many blocks are split by water provider boundaries. Therefore, we used the housing unit inventory to allocate portions of census characteristics to each provider on a split block. For the 2010 decennial estimates, homes built during or before 2009 were used for the allocation. For the 2000 estimates, homes built during or before 1999 were used, and for the 1990 estimates, homes built during or before 1989 were used.

In addition to total counts by service area of the five characteristics, the decennial benchmarks include two averages used in the postcensal and intercensal estimates — persons per household (PPH), also known as average household size, and vacancy rate (VAC). These are derived using the following formulas:

$$\text{PPH} = \text{HHPOP} / \text{HH}$$

$$\text{VAC} = 1 - (\text{HH} / \text{HU})$$

Postcensal Estimates

The 2010 decennial estimates form the baseline for the 2011, 2012, and 2013 estimates. First, the HU estimate was established for each service area, based on the year built information in the housing unit inventory, and additional information by city from PRC’s estimates program. The HH estimate followed, based on the formula:

² U.S. Census Bureau, “What are Census Blocks?” at <http://blogs.census.gov/2011/07/20/what-are-census-blocks/> last accessed on February 25, 2014.

³ The data source from each census is Summary File 1. A glossary on page 6 of this report contains descriptions of these characteristics.

$$HH = HU * (1 - VAC)$$

Once the HH estimate was established, the HHPOP estimate was calculated:

$$HHPOP = HH * PPH$$

Information on group quarters facilities provided by cities for PRC's Population Estimates Program was used to adjust the GQPOP for each service area, as needed. Finally, the total population estimate was:

$$POP = HHPOP + GQPOP$$

New housing units are documented with administrative records including building permits and tax assessor data. Therefore, the HU estimate is straightforward. In contrast, reliable data for the number of vacant homes and the number of people living in occupied homes is only available once every 10 years from the decennial census, so population estimates by city and county from PRC and household size and vacancy rate estimates by county from the Census Bureau's American Community Survey (ACS) were used as guidelines to adjust PPH and VAC in the postcensal estimates.

Although some service areas cross county boundaries, we identified each area by its primary county, forming a cluster corresponding to each of the three counties. We computed ratios of the aggregated decennial populations of each cluster to the county's total population. These ratios were used as guidelines to ensure that postcensal estimates remain consistent with PRC's county-level population estimates. For example, the 2010 ratio of Washington County water providers to the county's total population was 0.920. The ACS estimates indicate small increases in PPH and decreases in VAC since 2010. Therefore, we adjusted PPH and VAC in the estimates model, monitoring the ratios to prevent unrealistic fluctuations and ensuring consistency with the county estimates.

We also computed ratios and numeric differences comparing 2010 municipal water provider population estimates to the 2010 population within their city boundaries. Most of the municipalities have water service areas that differ from their corporate boundaries. In the absence of annexation or extensive residential development, the relationship between the population estimate for their water service area and PRC's city population estimate should remain fairly stable in the postcensal estimates. Just three cities, Sherwood, Tualatin, and Wilsonville, have water service areas coterminous with their city boundary. For these three cities, the 2010 population matches the census count, and the 2011 to 2013 estimates match PRC's city estimates. Forest Grove is a special case, because it annexed 260 residents in March 2013. The water service area estimates for every year reflect the city's new boundaries plus

about 60 homes outside the city in the Gales Creek area. Prior to 2013, PRC's city estimates did not include the annexed areas, so the ratio of the 2013 water service area to the city's population is higher for the 2010 Census and 2011 and 2012 estimates than for the 2013 estimates.

Intercensal Estimates

For annual estimates in non-census years prior to 2010, the housing unit inventory was used to distribute the incremental HU change between two censuses. For example, Beaverton's 2013 water service area added 5,648 units between the 1990 and 2000 censuses. Based on the housing unit inventory, 43.3 percent of the units built between 1990 and 1999 had been built by the end of 1993. Therefore, the 1994 HU estimate is 2,444 units larger than the 1990 census benchmark HU estimate.

Because of data limitations, there were fewer adjustments of the inputs to the intercensal estimates model than to the postcensal model. PRC's historic city estimates are not revised to incorporate the results of new census data, so we were not concerned with the ratio of water service area estimates to city population estimates, even for cities with stable or coterminous boundaries. For example, a 2004 PRC city estimate that uses the 2000 Census as a benchmark may not be as reliable as a 2004 service area estimate that uses both 2000 and 2010 censuses as benchmarks. The ACS was not fully implemented until 2005, and its 2005 to 2009 estimates are unrevised to reflect the 2010 Census, so we simply used straight line interpolations to develop intercensal rates for PPH and VAC.

In most cases we also used straight line interpolations for GQPOP. The actual history of annual GQPOP changes is certainly not that smooth, but the inconsistencies of how the Census Bureau classifies group quarters in different censuses, and the inconsistent reporting by cities for PRC's annual estimates made developing a more accurate historic series problematic. The one exception to interpolation was Wilsonville's 1990s estimates. Although the former Dammasch State Hospital was not within Wilsonville at the time that it closed in 1995, its site is presently within the city (and water service area), and the facility is included in the 1990 population estimate for the water service area. The abrupt drop in GQPOP is reflected between the 1994 and 1995 estimates.

After we established annual estimates of HU, PPH, VAC, and GQPOP for each service area, we calculated the HH, HHPOP, and POP estimates using the same formulas used for the postcensal estimates.

Glossary

The following definitions are furnished by the U.S. Census Bureau.⁴

Group Quarters	A group quarters is a place where people live or stay that is normally owned or managed by an entity or organization providing housing and/or services for the residents. These services may include custodial or medical care as well as other types of assistance, and residency is commonly restricted to those receiving these services. People living in group quarters are usually not related to each other. Group quarters include such places as college residence halls, residential treatment centers, skilled nursing facilities, group homes, military barracks, correctional facilities, workers' dormitories, and facilities for people experiencing homelessness.
Household	A person or group of people who occupy a housing unit as their usual place of residence. The number of households equals the number of occupied housing units in a census.
Housing unit	A single-family house, townhouse, mobile home or trailer, apartment, group of rooms, or single room that is occupied as a separate living quarters or, if vacant, is intended for occupancy as a separate living quarters (in which one or more occupants live separately from any other individual(s) in the building and have direct access to the living quarters without going through another living quarters, such as from outside the building or through a common hall. For vacant units, the criteria of separateness and direct access are applied to the intended occupants.)
Population	All people living in a geographic area.
Vacant Housing Unit	A housing unit in which no one is living on Census Day, unless its occupants are only temporarily absent. Units temporarily occupied at the time of enumeration by individuals who have a usual home elsewhere are classified as vacant. (Transient quarters, such as hotels, are housing units only if occupied. Thus, there are no vacant housing units at hotels and the like.) New units not yet occupied are classified as vacant housing units if construction has reached a point where all exterior windows and doors are installed and final usable floors are in place. Vacant units are excluded from the housing unit inventory if they are open to the elements, have a posted "condemned" sign, or are used entirely for nonresidential purposes (except storage of household furniture).

⁴ U.S. Census Bureau, Decennial Management Division Glossary. Available at <http://www.census.gov/dmd/www/glossary.html>, last accessed on February 25, 2014.

Appendix

Population, Housing Unit, and Household Estimates, 1990 to 2013

<u>2013 Summary</u>	A-1	<u>Districts (continued)</u>	
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Gresham	A-7	West Slope Water District	A-30
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Cherry Grove (City of Hillsboro)	A-9	<u>PWB Wholesale Customers</u>	
Lake Oswego	A-10	Burlington Water District	A-31
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Portland	A-12	Green Valley Water Company	A-33
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CRW/Oregon City overlap	A-24		

2013 Population, Housing Unit, and Household Estimates

Cities	Population (POP)	Household Population (HHP)	Group Quarters Population (GQPOP)	Housing Units (HU)	Households (HH)	Persons per Household (PPH)	Vacancy Rate (VAC)
City of Beaverton Water Service Area	68,515	67,708	807	29,346	27,793	2.44	5.3%
City of Fairview Water Service Area	8,151	8,147	4	3,501	3,282	2.48	6.3%
City of Forest Grove Water Service Area	22,518	21,205	1,313	8,297	7,821	2.71	5.7%
City of Gladstone Water Service Area	11,137	11,040	97	4,655	4,418	2.50	5.1%
City of Gresham Water Service Area	71,654	70,526	1,128	28,288	26,755	2.64	5.4%
City of Hillsboro Water Service Area	81,310	79,939	1,371	29,339	27,871	2.87	5.0%
Cherry Grove (City of Hillsboro) Water Service Area	1,456	1,448	8	557	526	2.75	5.5%
City of Lake Oswego Water Service Area	35,145	34,761	384	16,386	15,325	2.27	6.5%
City of Milwaukie Water Service Area	19,430	19,130	300	8,681	8,248	2.32	5.0%
Portland Water Bureau Service Area	575,365	557,439	17,926	262,134	245,837	2.27	6.2%
City of Sandy Water Service Area	10,337	10,312	25	4,043	3,830	2.69	5.3%
City of Sherwood Water Service Area	18,575	18,568	7	6,745	6,492	2.86	3.8%
City of Tigard Water Service Area	60,236	59,905	331	25,409	24,277	2.47	4.5%
City of Tualatin Water Service Area	26,510	26,416	94	10,742	10,212	2.59	4.9%
City of Wilsonville Water Service Area	21,550	19,818	1,732	9,349	8,657	2.29	7.4%
Districts							
Clackamas River Water District*	44,271	43,900	371	18,606	17,607	2.49	5.4%
Clackamas River Water/Oregon City Overlap	10,396	10,210	186	4,100	3,596	2.84	12.3%
Oak Lodge Water District	27,417	27,016	401	12,050	11,335	2.38	5.9%
Raleigh Water District	4,142	4,091	51	2,151	2,038	2.01	5.3%
Rockwood Water PUD	61,514	60,477	1,037	22,427	21,162	2.86	5.6%
South Fork Water Board (Oregon City Part*)	23,944	23,470	474	9,754	9,231	2.54	5.4%
Clackamas River Water/Oregon City Overlap	10,396	10,210	186	4,100	3,596	2.84	12.3%
South Fork Water Board (West Linn Part)	25,529	25,438	91	10,267	9,728	2.61	5.3%

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*Does not include CRW/Oregon City overlap area

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2013 Population, Housing Unit, and Household Estimates

Districts (continued)	Population (POP)	Household Population (HHP)	Group Quarters Population (GQPOP)	Housing Units (HU)	Households (HH)	Persons per Household (PPH)	Vacancy Rate (VAC)
Sunrise Water Authority	46,228	46,187	41	17,206	16,292	2.83	5.3%
Tualatin Valley Water District (Total)	211,361	209,653	1,708	84,404	79,837	2.63	5.4%
TVWD (Metzger sub-area)	20,160	19,700	460	8,942	8,476	2.32	5.2%
TVWD (Wolf Creek sub-area)	191,201	189,953	1,248	75,462	71,361	2.66	5.4%
West Slope Water District	10,245	10,145	100	4,679	4,429	2.29	5.3%
PWB Wholesale Customers							
Burlington Water District	280	280	0	150	134	2.09	11.0%
GNR Water Company	48	48	0	20	19	2.53	5.0%
Green Valley Water Company	7	7	0	3	3	2.34	0.0%
Hideaway Hills Water Company	52	52	0	19	18	2.89	5.2%
Lake Grove Water District	2,881	2,871	10	1,328	1,257	2.28	5.4%
Lorna Water Company	249	248	1	105	99	2.51	5.5%
Lusted Water District	1,069	1,060	9	407	384	2.76	5.5%
Palatine Hill Water District	1,531	1,531	0	584	525	2.92	10.2%
Pleasant Home Water District	1,462	1,453	9	559	523	2.78	6.5%
Skyview Acres Water Company	35	35	0	17	15	2.34	11.7%
Two Rivers Water Association	14	14	0	7	7	2.00	0.0%
Valley View Water District	900	899	1	380	359	2.50	5.4%

Population Research Center, Portland State University, January 2014

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City of Beaverton Water Service Area

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	44,930	44,548	19,674	18,723	2.38	4.8%
1991	47,560	47,140	20,783	19,770	2.38	4.9%
1992	49,017	48,558	21,372	20,321	2.39	4.9%
1993	50,263	49,766	21,866	20,782	2.39	5.0%
1994	50,960	50,424	22,118	21,012	2.40	5.0%
1995	51,687	51,113	22,383	21,254	2.40	5.0%
1996	52,709	52,097	22,775	21,617	2.41	5.1%
1997	54,979	54,328	23,711	22,495	2.42	5.1%
1998	55,950	55,261	24,077	22,833	2.42	5.2%
1999	57,267	56,539	24,593	23,312	2.43	5.2%
2000*	59,077	58,311	25,322	23,992	2.43	5.3%
2001	59,538	58,797	25,571	24,222	2.43	5.3%
2002	61,299	60,583	26,387	24,989	2.42	5.3%
2003	63,515	62,824	27,404	25,946	2.42	5.3%
2004	64,086	63,420	27,706	26,225	2.42	5.3%
2005	64,354	63,713	27,875	26,379	2.42	5.4%
2006	65,134	64,518	28,270	26,746	2.41	5.4%
2007	65,867	65,276	28,645	27,094	2.41	5.4%
2008	66,287	65,721	28,884	27,313	2.41	5.4%
2009	66,316	65,775	28,951	27,370	2.40	5.5%
2010*	66,364	65,848	29,027	27,435	2.40	5.5%
2011	67,099	66,433	29,122	27,541	2.41	5.4%
2012	67,744	67,037	29,225	27,654	2.42	5.4%
2013	68,515	67,708	29,346	27,793	2.44	5.3%

**April 1 census data allocated to area. All other years are July 1 estimates.*

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January, 2014

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City of Fairview Water Service Area

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	2,090	2,006	805	777	2.58	3.5%
1991	2,116	2,039	820	786	2.59	4.1%
1992	2,159	2,090	842	802	2.61	4.8%
1993	2,779	2,717	1,097	1,038	2.62	5.4%
1994	2,789	2,735	1,106	1,040	2.63	6.0%
1995	2,784	2,737	1,110	1,036	2.64	6.7%
1996	4,334	4,294	1,745	1,618	2.65	7.3%
1997	4,717	4,685	1,908	1,757	2.67	7.9%
1998	6,035	6,010	2,453	2,244	2.68	8.5%
1999	6,170	6,153	2,518	2,287	2.69	9.2%
2000*	6,677	6,667	2,735	2,467	2.70	9.8%
2001	7,098	7,089	2,920	2,644	2.68	9.5%
2002	7,339	7,330	3,032	2,756	2.66	9.1%
2003	7,474	7,466	3,102	2,830	2.64	8.8%
2004	7,601	7,593	3,168	2,902	2.62	8.4%
2005	8,044	8,037	3,369	3,097	2.60	8.1%
2006	8,118	8,112	3,415	3,152	2.57	7.7%
2007	8,175	8,169	3,456	3,201	2.55	7.4%
2008	8,207	8,202	3,486	3,241	2.53	7.0%
2009	8,187	8,182	3,494	3,261	2.51	6.7%
2010*	8,146	8,142	3,494	3,273	2.49	6.3%
2011	8,145	8,141	3,495	3,276	2.49	6.3%
2012	8,147	8,143	3,497	3,280	2.48	6.2%
2013	8,151	8,147	3,501	3,282	2.48	6.3%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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City of Forest Grove Water Service Area

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	14,467	13,626	5,438	5,268	2.59	3.1%
1991	14,550	13,697	5,466	5,283	2.59	3.3%
1992	15,019	14,155	5,649	5,447	2.60	3.6%
1993	15,241	14,365	5,733	5,515	2.60	3.8%
1994	15,469	14,581	5,819	5,585	2.61	4.0%
1995	15,666	14,766	5,893	5,643	2.62	4.2%
1996	16,223	15,312	6,111	5,838	2.62	4.5%
1997	17,024	16,101	6,426	6,125	2.63	4.7%
1998	17,690	16,755	6,687	6,359	2.63	4.9%
1999	17,808	16,862	6,730	6,385	2.64	5.1%
2000*	18,512	17,554	7,007	6,632	2.65	5.4%
2001	18,863	17,895	7,130	6,745	2.65	5.4%
2002	19,625	18,647	7,417	7,012	2.66	5.5%
2003	20,249	19,261	7,648	7,226	2.67	5.5%
2004	20,360	19,362	7,674	7,247	2.67	5.6%
2005	20,649	19,641	7,771	7,334	2.68	5.6%
2006	20,851	19,834	7,833	7,389	2.68	5.7%
2007	20,982	19,955	7,867	7,417	2.69	5.7%
2008	21,198	20,161	7,934	7,476	2.70	5.8%
2009	21,360	20,313	7,980	7,515	2.70	5.8%
2010*	21,468	20,411	8,005	7,534	2.71	5.9%
2011	21,649	20,542	8,065	7,598	2.70	5.8%
2012	21,836	20,732	8,135	7,661	2.71	5.8%
2013	22,518	21,205	8,297	7,821	2.71	5.7%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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City of Gladstone Water Service Area

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	9,758	9,567	3,625	3,556	2.69	1.9%
1991	9,747	9,559	3,636	3,559	2.69	2.1%
1992	9,733	9,548	3,646	3,561	2.68	2.3%
1993	9,759	9,577	3,671	3,578	2.68	2.5%
1994	9,753	9,574	3,684	3,583	2.67	2.7%
1995	10,587	10,411	4,022	3,903	2.67	3.0%
1996	10,809	10,636	4,124	3,994	2.66	3.2%
1997	11,043	10,873	4,232	4,090	2.66	3.4%
1998	11,042	10,875	4,250	4,098	2.65	3.6%
1999	11,047	10,883	4,270	4,108	2.65	3.8%
2000*	11,094	10,933	4,306	4,134	2.64	4.0%
2001	11,042	10,887	4,316	4,139	2.63	4.1%
2002	11,601	11,453	4,571	4,378	2.62	4.2%
2003	11,569	11,427	4,591	4,392	2.60	4.3%
2004	11,494	11,359	4,594	4,390	2.59	4.4%
2005	11,471	11,342	4,618	4,408	2.57	4.5%
2006	11,405	11,282	4,625	4,409	2.56	4.7%
2007	11,342	11,226	4,634	4,412	2.54	4.8%
2008	11,285	11,175	4,644	4,417	2.53	4.9%
2009	11,205	11,102	4,646	4,413	2.52	5.0%
2010*	11,131	11,034	4,649	4,411	2.50	5.1%
2011	11,130	11,033	4,651	4,413	2.50	5.1%
2012	11,132	11,035	4,653	4,416	2.50	5.1%
2013	11,137	11,040	4,655	4,418	2.50	5.1%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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City of Gresham Water Service Area

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	41,950	41,400	16,389	15,545	2.66	5.1%
1991	45,932	45,363	18,004	17,072	2.66	5.2%
1992	46,963	46,375	18,454	17,493	2.65	5.2%
1993	48,812	48,205	19,231	18,225	2.64	5.2%
1994	49,346	48,720	19,487	18,462	2.64	5.3%
1995	50,799	50,153	20,112	19,049	2.63	5.3%
1996	52,580	51,915	20,873	19,764	2.63	5.3%
1997	53,320	52,636	21,219	20,085	2.62	5.3%
1998	55,095	54,392	21,984	20,803	2.61	5.4%
1999	57,071	56,349	22,835	21,602	2.61	5.4%
2000*	58,354	57,613	23,408	22,138	2.60	5.4%
2001	59,929	59,169	24,035	22,727	2.60	5.4%
2002	60,832	60,053	24,389	23,058	2.60	5.5%
2003	62,346	61,549	24,991	23,623	2.61	5.5%
2004	63,746	62,930	25,547	24,144	2.61	5.5%
2005	65,302	64,467	26,165	24,724	2.61	5.5%
2006	66,832	65,978	26,773	25,294	2.61	5.5%
2007	67,863	66,990	27,177	25,672	2.61	5.5%
2008	68,526	67,635	27,433	25,909	2.61	5.6%
2009	69,333	68,423	27,747	26,201	2.61	5.6%
2010*	69,825	68,896	27,933	26,372	2.61	5.6%
2011	70,855	69,751	28,150	26,593	2.62	5.5%
2012	71,158	70,032	28,219	26,674	2.63	5.5%
2013	71,654	70,526	28,288	26,755	2.64	5.4%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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City of Hillsboro Water Service Area

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	39,439	38,813	13,867	13,424	2.89	3.2%
1991	40,782	40,123	14,366	13,862	2.89	3.5%
1992	41,378	40,686	14,600	14,041	2.90	3.8%
1993	43,126	42,402	15,249	14,617	2.90	4.1%
1994	44,300	43,543	15,694	14,994	2.90	4.5%
1995	45,974	45,184	16,322	15,542	2.91	4.8%
1996	47,599	46,776	16,935	16,072	2.91	5.1%
1997	51,948	51,092	18,539	17,536	2.91	5.4%
1998	54,717	53,829	19,577	18,455	2.92	5.7%
1999	58,254	57,333	20,899	19,635	2.92	6.0%
2000*	61,433	60,479	22,096	20,690	2.92	6.4%
2001	64,657	63,662	23,296	21,841	2.91	6.2%
2002	66,281	65,245	23,913	22,448	2.91	6.1%
2003	68,410	67,333	24,719	23,233	2.90	6.0%
2004	70,397	69,279	25,474	23,973	2.89	5.9%
2005	72,129	70,970	26,138	24,629	2.88	5.8%
2006	73,965	72,765	26,843	25,325	2.87	5.7%
2007	77,374	76,133	28,132	26,574	2.86	5.5%
2008	78,494	77,212	28,578	27,029	2.86	5.4%
2009	78,834	77,511	28,737	27,213	2.85	5.3%
2010*	79,058	77,694	28,853	27,357	2.84	5.2%
2011	79,877	78,513	28,996	27,508	2.85	5.1%
2012	80,170	78,914	29,101	27,622	2.86	5.1%
2013	81,310	79,939	29,339	27,871	2.87	5.0%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Cherry Grove (City of Hillsboro) Water Service Area

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	1,546	1,546	516	504	3.07	2.3%
1991	1,547	1,547	519	506	3.06	2.5%
1992	1,539	1,539	519	505	3.05	2.7%
1993	1,531	1,531	519	504	3.04	2.9%
1994	1,523	1,523	520	503	3.03	3.3%
1995	1,518	1,518	521	503	3.02	3.5%
1996	1,519	1,519	524	505	3.01	3.6%
1997	1,514	1,514	525	505	3.00	3.8%
1998	1,512	1,512	527	506	2.99	4.0%
1999	1,504	1,504	528	505	2.98	4.4%
2000*	1,508	1,508	532	508	2.97	4.5%
2001	1,495	1,494	532	507	2.95	4.7%
2002	1,500	1,498	537	512	2.93	4.7%
2003	1,486	1,484	537	511	2.90	4.8%
2004	1,479	1,476	539	512	2.88	5.0%
2005	1,472	1,468	540	513	2.86	5.0%
2006	1,467	1,462	543	515	2.84	5.2%
2007	1,460	1,454	545	516	2.82	5.3%
2008	1,452	1,446	547	517	2.80	5.5%
2009	1,447	1,440	549	519	2.77	5.5%
2010*	1,440	1,432	551	520	2.75	5.6%
2011	1,445	1,437	553	522	2.75	5.6%
2012	1,451	1,443	555	524	2.75	5.6%
2013	1,456	1,448	557	526	2.75	5.6%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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City of Lake Oswego Water Service Area

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	30,112	29,997	12,990	12,373	2.42	4.7%
1991	31,547	31,432	13,665	12,996	2.42	4.9%
1992	31,709	31,593	13,790	13,094	2.41	5.0%
1993	31,963	31,847	13,955	13,231	2.41	5.2%
1994	32,056	31,940	14,052	13,302	2.40	5.3%
1995	32,576	32,459	14,338	13,551	2.40	5.5%
1996	33,219	33,102	14,680	13,853	2.39	5.6%
1997	33,280	33,163	14,765	13,912	2.38	5.8%
1998	33,437	33,320	14,895	14,012	2.38	5.9%
1999	33,510	33,392	14,987	14,077	2.37	6.1%
2000*	33,857	33,739	15,204	14,258	2.37	6.2%
2001	33,889	33,764	15,280	14,325	2.36	6.3%
2002	34,829	34,698	15,769	14,780	2.35	6.3%
2003	34,817	34,679	15,828	14,831	2.34	6.3%
2004	34,798	34,654	15,885	14,880	2.33	6.3%
2005	34,787	34,636	15,945	14,932	2.32	6.4%
2006	34,875	34,718	16,052	15,028	2.31	6.4%
2007	34,904	34,740	16,133	15,099	2.30	6.4%
2008	34,891	34,721	16,194	15,152	2.29	6.4%
2009	34,827	34,650	16,232	15,183	2.28	6.5%
2010*	34,718	34,535	16,249	15,195	2.27	6.5%
2011	34,833	34,613	16,292	15,237	2.27	6.5%
2012	34,895	34,609	16,339	15,258	2.27	6.6%
2013	35,145	34,761	16,386	15,325	2.27	6.5%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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City of Milwaukie Water Service Area

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	18,026	17,922	7,888	7,630	2.35	3.3%
1991	18,356	18,225	8,038	7,762	2.35	3.4%
1992	18,462	18,303	8,088	7,798	2.35	3.6%
1993	18,525	18,339	8,120	7,816	2.35	3.7%
1994	18,623	18,409	8,167	7,849	2.35	3.9%
1995	18,686	18,445	8,200	7,867	2.34	4.1%
1996	19,144	18,876	8,408	8,054	2.34	4.2%
1997	19,336	19,040	8,499	8,127	2.34	4.4%
1998	19,588	19,265	8,616	8,226	2.34	4.5%
1999	19,625	19,274	8,638	8,233	2.34	4.7%
2000*	19,645	19,267	8,652	8,233	2.34	4.8%
2001	19,609	19,248	8,655	8,234	2.34	4.9%
2002	19,571	19,227	8,656	8,234	2.34	4.9%
2003	19,552	19,225	8,666	8,242	2.33	4.9%
2004	19,512	19,202	8,667	8,241	2.33	4.9%
2005	19,474	19,181	8,668	8,241	2.33	4.9%
2006	19,433	19,157	8,669	8,240	2.32	4.9%
2007	19,404	19,145	8,674	8,244	2.32	5.0%
2008	19,364	19,122	8,675	8,243	2.32	5.0%
2009	19,321	19,096	8,675	8,241	2.32	5.0%
2010*	19,281	19,073	8,675	8,240	2.31	5.0%
2011	19,400	19,032	8,677	8,243	2.31	5.0%
2012	19,425	19,125	8,679	8,246	2.32	5.0%
2013	19,430	19,130	8,681	8,248	2.32	5.0%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Portland Water Bureau Service Area

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	472,060	459,822	212,137	200,481	2.29	5.5%
1991	474,533	462,026	213,276	201,510	2.29	5.5%
1992	477,582	464,805	214,681	202,790	2.29	5.5%
1993	481,310	468,264	216,402	204,368	2.29	5.6%
1994	483,499	470,183	217,413	205,275	2.29	5.6%
1995	486,687	473,102	218,887	206,619	2.29	5.6%
1996	490,280	476,426	220,551	208,141	2.29	5.6%
1997	494,092	479,968	222,318	209,759	2.29	5.6%
1998	500,752	486,359	225,407	212,624	2.29	5.7%
1999	504,691	490,028	227,237	214,300	2.29	5.7%
2000*	512,749	497,817	230,981	217,780	2.29	5.7%
2001	516,786	501,606	233,158	219,678	2.28	5.8%
2002	521,624	506,195	235,715	221,931	2.28	5.8%
2003	524,924	509,247	237,563	223,514	2.28	5.9%
2004	529,111	513,185	239,832	225,490	2.28	6.0%
2005	536,335	520,161	243,532	228,807	2.27	6.0%
2006	540,770	524,348	245,936	230,903	2.27	6.1%
2007	548,061	531,390	249,690	234,262	2.27	6.2%
2008	553,440	536,521	252,557	236,785	2.27	6.2%
2009	560,495	543,327	256,225	240,054	2.26	6.3%
2010*	564,461	547,045	258,446	241,964	2.26	6.4%
2011	567,163	549,747	259,289	242,919	2.26	6.3%
2012	570,633	552,707	260,254	243,989	2.27	6.2%
2013	575,365	557,439	262,134	245,837	2.27	6.2%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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City of Sandy Water Service Area

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	4,697	4,625	1,737	1,684	2.75	3.1%
1991	4,759	4,692	1,768	1,709	2.75	3.3%
1992	4,766	4,704	1,778	1,714	2.74	3.6%
1993	4,847	4,789	1,816	1,746	2.74	3.9%
1994	5,054	5,001	1,902	1,824	2.74	4.1%
1995	5,149	5,101	1,946	1,861	2.74	4.4%
1996	5,188	5,145	1,969	1,878	2.74	4.6%
1997	5,329	5,291	2,032	1,932	2.74	4.9%
1998	5,416	5,382	2,073	1,966	2.74	5.2%
1999	5,584	5,555	2,147	2,030	2.74	5.4%
2000*	5,812	5,788	2,244	2,116	2.74	5.7%
2001	6,641	6,618	2,571	2,425	2.73	5.7%
2002	7,189	7,167	2,789	2,632	2.72	5.6%
2003	7,625	7,604	2,964	2,799	2.72	5.6%
2004	8,044	8,024	3,134	2,960	2.71	5.6%
2005	8,268	8,249	3,228	3,050	2.70	5.5%
2006	8,637	8,619	3,378	3,194	2.70	5.4%
2007	9,154	9,137	3,588	3,394	2.69	5.4%
2008	9,581	9,565	3,763	3,561	2.69	5.4%
2009	9,826	9,811	3,867	3,661	2.68	5.3%
2010*	9,912	9,898	3,909	3,702	2.67	5.3%
2011	10,121	10,112	3,963	3,754	2.69	5.3%
2012	10,223	10,214	4,001	3,790	2.69	5.3%
2013	10,337	10,312	4,043	3,830	2.69	5.3%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

www.pdx.edu/prc

City of Sherwood Water Service Area

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	3,181	3,181	1,273	1,233	2.58	3.1%
1991	3,281	3,279	1,304	1,262	2.60	3.2%
1992	3,441	3,437	1,357	1,313	2.62	3.2%
1993	3,733	3,727	1,462	1,414	2.64	3.3%
1994	4,330	4,322	1,684	1,628	2.65	3.3%
1995	4,903	4,893	1,893	1,830	2.67	3.3%
1996	5,910	5,899	2,268	2,191	2.69	3.4%
1997	7,701	7,688	2,937	2,836	2.71	3.4%
1998	9,424	9,409	3,571	3,447	2.73	3.5%
1999	11,104	11,087	4,181	4,034	2.75	3.5%
2000*	11,879	11,860	4,444	4,286	2.77	3.6%
2001	12,822	12,804	4,779	4,608	2.78	3.6%
2002	13,610	13,593	5,055	4,872	2.79	3.6%
2003	14,229	14,214	5,266	5,074	2.80	3.6%
2004	14,592	14,578	5,381	5,183	2.81	3.7%
2005	15,684	15,671	5,762	5,549	2.82	3.7%
2006	16,574	16,562	6,067	5,841	2.84	3.7%
2007	17,933	17,922	6,541	6,295	2.85	3.8%
2008	18,091	18,082	6,575	6,326	2.86	3.8%
2009	18,194	18,186	6,589	6,337	2.87	3.8%
2010*	18,194	18,187	6,569	6,316	2.88	3.9%
2011	18,255	18,248	6,621	6,366	2.87	3.9%
2012	18,265	18,258	6,637	6,384	2.86	3.8%
2013	18,575	18,568	6,745	6,492	2.86	3.8%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

www.pdx.edu/prc

City of Tigard Water Service Area

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	32,258	32,035	14,433	13,612	2.35	5.7%
1991	34,575	34,347	15,400	14,534	2.36	5.6%
1992	36,082	35,850	15,997	15,107	2.37	5.6%
1993	38,160	37,923	16,841	15,915	2.38	5.5%
1994	39,269	39,027	17,248	16,311	2.39	5.4%
1995	41,401	41,154	18,102	17,130	2.40	5.4%
1996	43,409	43,158	18,894	17,891	2.41	5.3%
1997	45,171	44,915	19,570	18,544	2.42	5.2%
1998	46,650	46,389	20,117	19,075	2.43	5.2%
1999	48,301	48,036	20,734	19,673	2.44	5.1%
2000*	50,281	50,011	21,486	20,400	2.45	5.1%
2001	52,374	52,098	22,357	21,237	2.45	5.0%
2002	53,554	53,272	22,835	21,701	2.45	5.0%
2003	54,068	53,780	23,027	21,893	2.46	4.9%
2004	55,131	54,837	23,452	22,308	2.46	4.9%
2005	55,713	55,412	23,672	22,527	2.46	4.8%
2006	56,537	56,230	23,994	22,844	2.46	4.8%
2007	57,239	56,926	24,263	23,111	2.46	4.7%
2008	58,020	57,701	24,566	23,410	2.46	4.7%
2009	58,319	57,994	24,662	23,513	2.47	4.7%
2010*	58,512	58,181	24,714	23,573	2.47	4.6%
2011	58,668	58,337	24,875	23,732	2.46	4.6%
2012	59,142	58,811	25,048	23,903	2.46	4.6%
2013	60,236	59,905	25,409	24,277	2.47	4.5%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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City of Tualatin Water Service Area

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	14,896	14,894	5,956	5,681	2.62	4.6%
1991	15,551	15,537	6,224	5,927	2.62	4.8%
1992	16,396	16,369	6,568	6,245	2.62	4.9%
1993	16,839	16,800	6,753	6,410	2.62	5.1%
1994	17,458	17,407	7,008	6,642	2.62	5.2%
1995	17,841	17,777	7,170	6,784	2.62	5.4%
1996	19,235	19,159	7,740	7,312	2.62	5.5%
1997	20,387	20,299	8,215	7,748	2.62	5.7%
1998	20,614	20,514	8,317	7,831	2.62	5.8%
1999	21,702	21,589	8,767	8,242	2.62	6.0%
2000*	22,851	22,726	9,245	8,677	2.62	6.1%
2001	23,163	23,042	9,370	8,805	2.62	6.0%
2002	23,746	23,629	9,606	9,037	2.61	5.9%
2003	24,854	24,740	10,054	9,470	2.61	5.8%
2004	25,147	25,037	10,171	9,592	2.61	5.7%
2005	25,432	25,326	10,286	9,711	2.61	5.6%
2006	25,719	25,617	10,400	9,831	2.61	5.5%
2007	25,930	25,832	10,484	9,922	2.60	5.4%
2008	26,004	25,909	10,512	9,960	2.60	5.3%
2009	26,072	25,981	10,538	9,996	2.60	5.1%
2010*	26,054	25,967	10,528	10,000	2.60	5.0%
2011	26,060	25,973	10,567	10,045	2.59	4.9%
2012	26,120	26,023	10,590	10,067	2.58	4.9%
2013	26,510	26,416	10,742	10,212	2.59	4.9%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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City of Wilsonville Water Service Area

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	7,489	7,106	3,331	3,108	2.29	6.7%
1991	8,910	8,556	4,012	3,734	2.29	6.9%
1992	9,152	8,827	4,131	3,843	2.30	7.0%
1993	9,455	9,159	4,278	3,978	2.30	7.0%
1994	9,718	9,451	4,406	4,095	2.31	7.1%
1995	9,757	9,635	4,483	4,165	2.31	7.1%
1996	9,933	9,811	4,556	4,231	2.32	7.1%
1997	10,849	10,727	4,972	4,615	2.32	7.2%
1998	11,590	11,468	5,306	4,922	2.33	7.2%
1999	13,276	13,154	6,074	5,632	2.34	7.3%
2000*	13,991	13,898	6,407	5,937	2.34	7.3%
2001	14,626	14,388	6,647	6,162	2.33	7.3%
2002	14,992	14,610	6,765	6,274	2.33	7.3%
2003	15,273	14,746	6,844	6,349	2.32	7.2%
2004	15,806	15,135	7,041	6,534	2.32	7.2%
2005	16,805	15,989	7,456	6,921	2.31	7.2%
2006	17,353	16,393	7,663	7,115	2.30	7.2%
2007	18,256	17,151	8,036	7,464	2.30	7.1%
2008	18,853	17,604	8,269	7,682	2.29	7.1%
2009	19,230	17,836	8,397	7,804	2.29	7.1%
2010*	19,509	17,913	8,497	7,859	2.28	7.5%
2011	19,565	18,122	8,555	7,919	2.29	7.4%
2012	20,515	19,009	8,958	8,293	2.29	7.4%
2013	21,550	19,818	9,349	8,657	2.29	7.4%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Clackamas River Water District**

Estimates for all years based on 2013 boundaries

***Does not include Oregon City overlap area*

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	36,968	36,924	14,388	13,886	2.66	3.5%
1991	37,919	37,862	14,822	14,286	2.65	3.6%
1992	38,716	38,647	15,201	14,631	2.64	3.7%
1993	38,753	38,671	15,281	14,689	2.63	3.9%
1994	38,839	38,744	15,382	14,766	2.62	4.0%
1995	38,850	38,742	15,454	14,815	2.62	4.1%
1996	40,071	39,951	16,011	15,329	2.61	4.3%
1997	42,370	42,237	17,008	16,261	2.60	4.4%
1998	42,366	42,220	17,082	16,310	2.59	4.5%
1999	42,776	42,618	17,325	16,520	2.58	4.6%
2000*	42,703	42,532	17,373	16,543	2.57	4.8%
2001	42,814	42,623	17,478	16,632	2.56	4.8%
2002	43,162	42,951	17,681	16,814	2.55	4.9%
2003	43,201	42,970	17,758	16,876	2.55	5.0%
2004	43,206	42,955	17,821	16,925	2.54	5.0%
2005	43,390	43,119	17,959	17,045	2.53	5.1%
2006	43,443	43,152	18,044	17,114	2.52	5.2%
2007	44,113	43,802	18,388	17,429	2.51	5.2%
2008	44,092	43,761	18,443	17,470	2.50	5.3%
2009	44,057	43,706	18,494	17,506	2.50	5.3%
2010*	43,940	43,569	18,509	17,509	2.49	5.4%
2011	44,100	43,729	18,547	17,547	2.49	5.4%
2012	44,194	43,823	18,576	17,576	2.49	5.4%
2013	44,271	43,900	18,606	17,607	2.49	5.4%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Clackamas River Water/Oregon City Overlap

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	1,730	1,598	534	524	3.05	1.9%
1991	1,708	1,576	534	521	3.02	2.4%
1992	1,707	1,575	540	525	3.00	2.8%
1993	1,720	1,588	552	534	2.97	3.3%
1994	1,748	1,616	570	548	2.95	3.9%
1995	1,880	1,748	625	598	2.92	4.3%
1996	2,016	1,884	683	650	2.90	4.8%
1997	2,723	2,591	952	902	2.87	5.3%
1998	2,954	2,822	1,051	991	2.85	5.7%
1999	3,417	3,285	1,241	1,164	2.82	6.2%
2000*	4,493	4,361	1,671	1,559	2.80	6.7%
2001	5,252	5,115	1,969	1,826	2.80	7.3%
2002	5,946	5,803	2,245	2,069	2.80	7.8%
2003	6,464	6,316	2,455	2,249	2.81	8.4%
2004	6,995	6,841	2,673	2,433	2.81	9.0%
2005	7,268	7,109	2,791	2,525	2.82	9.5%
2006	7,719	7,555	2,981	2,680	2.82	10.1%
2007	8,302	8,132	3,225	2,881	2.82	10.7%
2008	8,841	8,666	3,454	3,066	2.83	11.2%
2009	9,070	8,889	3,561	3,141	2.83	11.8%
2010*	9,197	9,011	3,629	3,180	2.83	12.4%
2011	9,483	9,297	3,737	3,276	2.84	12.3%
2012	9,760	9,574	3,846	3,372	2.84	12.3%
2013	10,396	10,210	4,100	3,596	2.84	12.3%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Oak Lodge Water District

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	25,182	24,977	10,662	10,348	2.41	2.9%
1991	25,388	25,181	10,783	10,441	2.41	3.2%
1992	25,530	25,320	10,876	10,507	2.41	3.4%
1993	25,581	25,369	10,932	10,536	2.41	3.6%
1994	25,659	25,445	10,999	10,576	2.41	3.8%
1995	25,670	25,453	11,037	10,588	2.40	4.1%
1996	25,889	25,670	11,166	10,687	2.40	4.3%
1997	26,062	25,841	11,276	10,767	2.40	4.5%
1998	26,048	25,825	11,305	10,769	2.40	4.7%
1999	26,128	25,902	11,375	10,810	2.40	5.0%
2000*	26,166	25,938	11,427	10,834	2.39	5.2%
2001	26,322	26,077	11,505	10,899	2.39	5.3%
2002	26,354	26,091	11,528	10,912	2.39	5.3%
2003	26,677	26,397	11,680	11,047	2.39	5.4%
2004	27,080	26,783	11,869	11,216	2.39	5.5%
2005	27,109	26,794	11,892	11,228	2.39	5.6%
2006	27,183	26,851	11,934	11,259	2.38	5.7%
2007	27,206	26,857	11,955	11,269	2.38	5.7%
2008	27,268	26,902	11,992	11,295	2.38	5.8%
2009	27,271	26,887	12,003	11,296	2.38	5.9%
2010*	27,263	26,862	12,010	11,293	2.38	6.0%
2011	27,344	26,943	12,027	11,310	2.38	6.0%
2012	27,383	26,982	12,037	11,321	2.38	5.9%
2013	27,417	27,016	12,050	11,335	2.38	5.9%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Raleigh Water District

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	3,632	3,551	1,774	1,709	2.08	3.7%
1991	3,616	3,541	1,777	1,702	2.08	4.2%
1992	3,608	3,539	1,783	1,699	2.08	4.7%
1993	3,589	3,526	1,785	1,691	2.09	5.3%
1994	3,573	3,516	1,788	1,684	2.09	5.8%
1995	3,561	3,510	1,792	1,679	2.09	6.3%
1996	3,667	3,623	1,858	1,731	2.09	6.8%
1997	3,650	3,612	1,861	1,724	2.10	7.4%
1998	3,632	3,600	1,863	1,716	2.10	7.9%
1999	4,017	3,991	2,075	1,900	2.10	8.4%
2000*	4,007	3,987	2,083	1,896	2.10	9.0%
2001	4,005	3,982	2,085	1,905	2.09	8.6%
2002	4,072	4,046	2,124	1,947	2.08	8.3%
2003	4,067	4,038	2,125	1,955	2.07	8.0%
2004	4,064	4,032	2,127	1,964	2.05	7.7%
2005	4,057	4,021	2,128	1,971	2.04	7.4%
2006	4,052	4,013	2,129	1,979	2.03	7.0%
2007	4,046	4,004	2,130	1,987	2.02	6.7%
2008	4,042	3,997	2,132	1,996	2.00	6.4%
2009	4,046	3,998	2,139	2,009	1.99	6.1%
2010*	4,042	3,991	2,141	2,018	1.98	5.7%
2011	4,050	3,999	2,144	2,022	1.98	5.7%
2012	4,086	4,035	2,147	2,030	1.99	5.4%
2013	4,142	4,091	2,151	2,038	2.01	5.3%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Rockwood Water PUD

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	44,356	44,154	17,868	17,190	2.57	3.8%
1991	45,795	45,569	18,331	17,603	2.59	4.0%
1992	46,415	46,164	18,462	17,695	2.61	4.2%
1993	47,329	47,054	18,708	17,898	2.63	4.3%
1994	47,799	47,499	18,777	17,930	2.65	4.5%
1995	48,558	48,234	18,959	18,070	2.67	4.7%
1996	49,245	48,897	19,111	18,181	2.69	4.9%
1997	50,156	49,783	19,349	18,373	2.71	5.0%
1998	50,943	50,546	19,538	18,517	2.73	5.2%
1999	51,572	51,150	19,664	18,601	2.75	5.4%
2000*	52,777	52,331	20,009	18,892	2.77	5.6%
2001	53,360	52,865	20,173	19,042	2.78	5.6%
2002	54,143	53,599	20,412	19,263	2.78	5.6%
2003	54,627	54,034	20,537	19,376	2.79	5.7%
2004	55,112	54,470	20,661	19,489	2.79	5.7%
2005	56,981	56,289	21,309	20,095	2.80	5.7%
2006	57,703	56,962	21,521	20,290	2.81	5.7%
2007	58,390	57,600	21,720	20,472	2.81	5.7%
2008	59,103	58,264	21,926	20,662	2.82	5.8%
2009	59,769	58,881	22,115	20,835	2.83	5.8%
2010*	60,135	59,198	22,191	20,901	2.83	5.8%
2011	60,579	59,642	22,255	20,974	2.84	5.8%
2012	61,083	60,046	22,325	21,053	2.85	5.7%
2013	61,514	60,477	22,427	21,162	2.86	5.6%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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South Fork Water Board (Oregon City Part**)

Estimates for all years based on 2013 boundaries

*****Does not include Clackamas River Water overlap area***

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	16,723	16,369	6,378	6,159	2.66	3.4%
1991	16,731	16,335	6,396	6,159	2.65	3.7%
1992	16,748	16,311	6,418	6,163	2.65	4.0%
1993	17,033	16,554	6,545	6,268	2.64	4.2%
1994	17,172	16,651	6,616	6,318	2.64	4.5%
1995	18,460	17,897	7,146	6,805	2.63	4.8%
1996	20,087	19,483	7,819	7,424	2.62	5.1%
1997	20,612	19,966	8,052	7,624	2.62	5.3%
1998	21,557	20,869	8,458	7,986	2.61	5.6%
1999	22,088	21,359	8,700	8,191	2.61	5.9%
2000*	22,246	21,475	8,791	8,253	2.60	6.1%
2001	22,588	21,847	8,959	8,417	2.60	6.0%
2002	22,945	22,233	9,133	8,587	2.59	6.0%
2003	23,040	22,358	9,200	8,657	2.58	5.9%
2004	23,148	22,496	9,272	8,732	2.58	5.8%
2005	23,237	22,614	9,338	8,800	2.57	5.8%
2006	23,332	22,739	9,406	8,871	2.56	5.7%
2007	23,360	22,797	9,446	8,916	2.56	5.6%
2008	23,450	22,917	9,513	8,986	2.55	5.5%
2009	23,409	22,905	9,525	9,004	2.54	5.5%
2010*	23,397	22,923	9,549	9,034	2.54	5.4%
2011	23,581	23,107	9,610	9,093	2.54	5.4%
2012	23,740	23,266	9,670	9,151	2.54	5.4%
2013	23,944	23,470	9,754	9,231	2.54	5.4%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

www.pdx.edu/prc

Clackamas River Water/Oregon City Overlap

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	1,730	1,598	534	524	3.05	1.9%
1991	1,708	1,576	534	521	3.02	2.4%
1992	1,707	1,575	540	525	3.00	2.8%
1993	1,720	1,588	552	534	2.97	3.3%
1994	1,748	1,616	570	548	2.95	3.9%
1995	1,880	1,748	625	598	2.92	4.3%
1996	2,016	1,884	683	650	2.90	4.8%
1997	2,723	2,591	952	902	2.87	5.3%
1998	2,954	2,822	1,051	991	2.85	5.7%
1999	3,417	3,285	1,241	1,164	2.82	6.2%
2000*	4,493	4,361	1,671	1,559	2.80	6.7%
2001	5,252	5,115	1,969	1,826	2.80	7.3%
2002	5,946	5,803	2,245	2,069	2.80	7.8%
2003	6,464	6,316	2,455	2,249	2.81	8.4%
2004	6,995	6,841	2,673	2,433	2.81	9.0%
2005	7,268	7,109	2,791	2,525	2.82	9.5%
2006	7,719	7,555	2,981	2,680	2.82	10.1%
2007	8,302	8,132	3,225	2,881	2.82	10.7%
2008	8,841	8,666	3,454	3,066	2.83	11.2%
2009	9,070	8,889	3,561	3,141	2.83	11.8%
2010*	9,197	9,011	3,629	3,180	2.83	12.4%
2011	9,483	9,297	3,737	3,276	2.84	12.3%
2012	9,760	9,574	3,846	3,372	2.84	12.3%
2013	10,396	10,210	4,100	3,596	2.84	12.3%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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South Fork Water Board (West Linn Part)

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	16,751	16,669	6,073	5,940	2.81	2.2%
1991	17,433	17,349	6,367	6,202	2.80	2.6%
1992	17,858	17,773	6,570	6,374	2.79	3.0%
1993	18,270	18,183	6,770	6,542	2.78	3.4%
1994	18,873	18,784	7,045	6,780	2.77	3.8%
1995	19,226	19,135	7,230	6,929	2.76	4.2%
1996	20,090	19,998	7,611	7,265	2.75	4.5%
1997	20,423	20,329	7,794	7,409	2.74	4.9%
1998	20,996	20,900	8,073	7,642	2.73	5.3%
1999	21,217	21,120	8,219	7,748	2.73	5.7%
2000*	22,411	22,312	8,748	8,212	2.72	6.1%
2001	22,819	22,717	8,930	8,390	2.71	6.0%
2002	23,371	23,266	9,169	8,623	2.70	6.0%
2003	24,554	24,446	9,659	9,092	2.69	5.9%
2004	24,723	24,612	9,750	9,186	2.68	5.8%
2005	24,787	24,673	9,800	9,241	2.67	5.7%
2006	24,874	24,758	9,860	9,306	2.66	5.6%
2007	24,978	24,859	9,927	9,377	2.65	5.5%
2008	25,093	24,971	9,998	9,453	2.64	5.5%
2009	25,184	25,059	10,060	9,520	2.63	5.4%
2010*	25,236	25,108	10,107	9,573	2.62	5.3%
2011	25,375	25,245	10,168	9,630	2.62	5.3%
2012	25,480	25,389	10,225	9,680	2.62	5.3%
2013	25,529	25,438	10,267	9,728	2.61	5.2%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Sunrise Water Authority

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	18,435	18,417	6,598	6,215	2.96	5.8%
1991	19,895	19,878	7,144	6,740	2.95	5.7%
1992	20,792	20,776	7,490	7,078	2.94	5.5%
1993	22,082	22,067	7,981	7,554	2.92	5.4%
1994	22,798	22,784	8,266	7,837	2.91	5.2%
1995	23,659	23,646	8,607	8,173	2.89	5.0%
1996	24,173	24,162	8,823	8,392	2.88	4.9%
1997	25,466	25,456	9,327	8,885	2.87	4.7%
1998	27,026	27,017	9,931	9,476	2.85	4.6%
1999	28,792	28,784	10,617	10,146	2.84	4.4%
2000*	31,201	31,194	11,544	11,050	2.82	4.3%
2001	32,490	32,477	12,030	11,502	2.82	4.4%
2002	33,555	33,535	12,432	11,874	2.82	4.5%
2003	34,509	34,483	12,795	12,207	2.82	4.6%
2004	35,498	35,466	13,172	12,552	2.83	4.7%
2005	36,954	36,915	13,722	13,062	2.83	4.8%
2006	39,583	39,538	14,710	13,987	2.83	4.9%
2007	41,809	41,758	15,550	14,769	2.83	5.0%
2008	43,134	43,077	16,056	15,232	2.83	5.1%
2009	43,773	43,709	16,306	15,452	2.83	5.2%
2010*	44,029	43,959	16,414	15,537	2.83	5.3%
2011	44,562	44,509	16,593	15,708	2.83	5.3%
2012	45,343	45,286	16,872	15,974	2.83	5.3%
2013	46,228	46,187	17,206	16,292	2.83	5.3%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Tualatin Valley Water District (Metzger sub-area)

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	16,275	16,238	7,133	6,874	2.36	3.6%
1991	16,956	16,904	7,460	7,178	2.35	3.8%
1992	17,069	17,001	7,538	7,241	2.35	3.9%
1993	17,401	17,318	7,715	7,399	2.34	4.1%
1994	17,408	17,309	7,748	7,418	2.33	4.3%
1995	17,475	17,361	7,807	7,463	2.33	4.4%
1996	17,767	17,638	7,970	7,606	2.32	4.6%
1997	17,884	17,739	8,053	7,673	2.31	4.7%
1998	17,959	17,799	8,119	7,723	2.30	4.9%
1999	18,052	17,876	8,193	7,781	2.30	5.0%
2000*	18,144	17,953	8,268	7,839	2.29	5.2%
2001	18,494	18,276	8,419	7,980	2.29	5.2%
2002	18,665	18,420	8,487	8,043	2.29	5.2%
2003	18,820	18,548	8,548	8,099	2.29	5.3%
2004	18,874	18,575	8,563	8,111	2.29	5.3%
2005	18,951	18,625	8,588	8,133	2.29	5.3%
2006	19,064	18,712	8,630	8,171	2.29	5.3%
2007	19,205	18,826	8,684	8,221	2.29	5.3%
2008	19,436	19,030	8,780	8,310	2.29	5.4%
2009	19,499	19,066	8,799	8,326	2.29	5.4%
2010*	19,551	19,091	8,813	8,337	2.29	5.4%
2011	19,741	19,281	8,851	8,378	2.30	5.3%
2012	19,929	19,469	8,889	8,418	2.31	5.3%
2013	20,160	19,700	8,942	8,476	2.32	5.2%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Tualatin Valley Water District (Wolf Creek sub-area)

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	97,886	97,638	38,610	36,465	2.68	5.6%
1991	106,134	105,873	41,940	39,622	2.67	5.5%
1992	108,910	108,637	43,110	40,740	2.67	5.5%
1993	112,140	111,854	44,464	42,033	2.66	5.5%
1994	113,944	113,646	45,256	42,795	2.66	5.4%
1995	118,370	118,059	47,096	44,549	2.65	5.4%
1996	122,496	122,173	48,823	46,197	2.64	5.4%
1997	130,431	130,095	52,081	49,295	2.64	5.3%
1998	139,980	139,632	55,998	53,019	2.63	5.3%
1999	144,916	144,555	58,075	55,003	2.63	5.3%
2000*	151,431	151,058	60,796	57,598	2.62	5.3%
2001	156,038	155,600	62,656	59,330	2.62	5.3%
2002	159,623	159,119	64,107	60,672	2.62	5.4%
2003	164,355	163,786	66,021	62,452	2.62	5.4%
2004	168,372	167,738	67,649	63,959	2.62	5.5%
2005	171,595	170,895	68,958	65,163	2.62	5.5%
2006	174,680	173,915	70,213	66,315	2.62	5.6%
2007	177,391	176,561	71,319	67,324	2.62	5.6%
2008	180,227	179,332	72,476	68,381	2.62	5.7%
2009	181,373	180,412	72,950	68,793	2.62	5.7%
2010*	182,615	181,589	73,464	69,242	2.62	5.7%
2011	185,495	184,387	74,179	69,959	2.64	5.7%
2012	187,920	186,782	74,726	70,517	2.65	5.6%
2013	191,201	189,953	75,462	71,361	2.66	5.4%

**April 1 census data allocated to area. All other years are July 1 estimates.*

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January, 2014

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Tualatin Valley Water District

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	114,161	113,876	45,743	43,339	2.63	5.3%
1991	123,090	122,777	49,400	46,800	2.62	5.3%
1992	125,979	125,638	50,648	47,981	2.62	5.3%
1993	129,541	129,172	52,179	49,432	2.61	5.3%
1994	131,352	130,955	53,004	50,213	2.61	5.3%
1995	135,845	135,420	54,903	52,012	2.60	5.3%
1996	140,263	139,811	56,793	53,803	2.60	5.3%
1997	148,314	147,834	60,134	56,968	2.60	5.3%
1998	157,939	157,431	64,117	60,742	2.59	5.3%
1999	162,967	162,431	66,268	62,784	2.59	5.3%
2000*	169,575	169,011	69,064	65,437	2.58	5.3%
2001	174,532	173,876	71,075	67,310	2.58	5.3%
2002	178,287	177,539	72,594	68,715	2.58	5.3%
2003	183,175	182,334	74,569	70,551	2.58	5.4%
2004	187,246	186,313	76,212	72,070	2.59	5.4%
2005	190,545	189,520	77,546	73,296	2.59	5.5%
2006	193,744	192,627	78,843	74,486	2.59	5.5%
2007	196,596	195,387	80,003	75,545	2.59	5.6%
2008	199,664	198,362	81,256	76,691	2.59	5.6%
2009	200,872	199,478	81,749	77,119	2.59	5.7%
2010*	202,166	200,680	82,277	77,579	2.59	5.7%
2011	205,236	203,668	83,030	78,337	2.60	5.7%
2012	207,849	206,251	83,615	78,935	2.61	5.6%
2013	211,361	209,653	84,404	79,837	2.63	5.4%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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West Slope Water District

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	9,269	9,220	4,186	4,058	2.27	3.1%
1991	9,266	9,216	4,189	4,051	2.27	3.3%
1992	9,260	9,209	4,190	4,043	2.28	3.5%
1993	9,257	9,205	4,193	4,036	2.28	3.7%
1994	9,249	9,196	4,194	4,027	2.28	4.0%
1995	9,245	9,190	4,195	4,019	2.29	4.2%
1996	9,248	9,192	4,201	4,015	2.29	4.4%
1997	9,245	9,188	4,204	4,008	2.29	4.7%
1998	9,242	9,184	4,207	4,001	2.30	4.9%
1999	9,236	9,177	4,208	3,993	2.30	5.1%
2000*	9,306	9,246	4,245	4,018	2.30	5.3%
2001	9,688	9,624	4,424	4,187	2.30	5.4%
2002	10,053	9,985	4,597	4,349	2.30	5.4%
2003	10,057	9,985	4,603	4,354	2.29	5.4%
2004	10,059	9,983	4,608	4,358	2.29	5.4%
2005	10,056	9,976	4,611	4,360	2.29	5.4%
2006	10,087	10,003	4,630	4,377	2.29	5.5%
2007	10,087	9,999	4,634	4,380	2.28	5.5%
2008	10,125	10,033	4,656	4,400	2.28	5.5%
2009	10,124	10,028	4,660	4,403	2.28	5.5%
2010*	10,121	10,021	4,663	4,405	2.27	5.5%
2011	10,171	10,071	4,670	4,414	2.28	5.5%
2012	10,207	10,107	4,674	4,421	2.29	5.4%
2013	10,245	10,145	4,679	4,429	2.29	5.3%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Burlington Water District

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	318	318	154	144	2.21	6.5%
1991	316	316	153	143	2.21	6.5%
1992	313	313	153	142	2.20	7.2%
1993	313	313	153	142	2.20	7.2%
1994	313	313	153	142	2.20	7.2%
1995	311	311	153	141	2.21	7.8%
1996	311	311	153	141	2.21	7.8%
1997	311	311	153	141	2.21	7.8%
1998	311	311	153	141	2.21	7.8%
1999	308	308	153	140	2.20	8.5%
2000*	306	306	152	139	2.20	8.6%
2001	304	304	152	139	2.19	8.6%
2002	300	300	152	138	2.17	9.2%
2003	298	298	152	138	2.16	9.2%
2004	294	294	152	137	2.15	9.9%
2005	292	292	152	137	2.13	9.9%
2006	288	288	151	136	2.12	9.9%
2007	282	282	150	134	2.10	10.7%
2008	281	281	150	134	2.10	10.7%
2009	277	277	150	133	2.08	11.3%
2010*	275	275	150	133	2.07	11.3%
2011	276	276	150	133	2.08	11.3%
2012	277	277	150	133	2.08	11.3%
2013	280	280	150	134	2.09	10.7%

**April 1 census data allocated to area. All other years are July 1 estimates.*

*Prepared by Population Research Center, Portland State University
January, 2014*

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GNR Water Company

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	60	60	27	23	2.61	14.8%
1991	58	58	26	22	2.64	15.4%
1992	60	60	26	23	2.61	11.5%
1993	50	50	22	19	2.63	13.6%
1994	50	50	21	19	2.63	9.5%
1995	50	50	21	19	2.63	9.5%
1996	51	51	21	19	2.68	9.5%
1997	51	51	21	19	2.68	9.5%
1998	54	54	21	20	2.70	4.8%
1999	54	54	21	20	2.70	4.8%
2000*	54	54	21	20	2.70	4.8%
2001	54	54	21	20	2.70	4.8%
2002	53	53	21	20	2.65	4.8%
2003	53	53	21	20	2.65	4.8%
2004	53	53	21	20	2.65	4.8%
2005	52	52	21	20	2.60	4.8%
2006	52	52	21	20	2.60	4.8%
2007	52	52	21	20	2.60	4.8%
2008	49	49	20	19	2.58	5.0%
2009	48	48	20	19	2.53	5.0%
2010*	48	48	20	19	2.53	5.0%
2011	48	48	20	19	2.53	5.0%
2012	48	48	20	19	2.53	5.0%
2013	48	48	20	19	2.53	5.0%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Green Valley Water Company

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	9	9	3	3	3.00	0.0%
1991	9	9	3	3	3.00	0.0%
1992	9	9	3	3	3.00	0.0%
1993	9	9	3	3	3.00	0.0%
1994	9	9	3	3	3.00	0.0%
1995	9	9	3	3	3.00	0.0%
1996	8	8	3	3	2.67	0.0%
1997	8	8	3	3	2.67	0.0%
1998	8	8	3	3	2.67	0.0%
1999	8	8	3	3	2.67	0.0%
2000*	8	8	3	3	2.67	0.0%
2001	8	8	3	3	2.67	0.0%
2002	8	8	3	3	2.67	0.0%
2003	8	8	3	3	2.67	0.0%
2004	8	8	3	3	2.67	0.0%
2005	8	8	3	3	2.67	0.0%
2006	7	7	3	3	2.33	0.0%
2007	7	7	3	3	2.33	0.0%
2008	7	7	3	3	2.33	0.0%
2009	7	7	3	3	2.33	0.0%
2010*	7	7	3	3	2.33	0.0%
2011	7	7	3	3	2.33	0.0%
2012	7	7	3	3	2.33	0.0%
2013	7	7	3	3	2.33	0.0%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Hideaway Hills Water Company

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	45	45	17	16	2.81	5.9%
1991	44	44	17	16	2.75	5.9%
1992	43	43	17	16	2.69	5.9%
1993	45	45	18	17	2.65	5.6%
1994	45	45	18	17	2.65	5.6%
1995	44	44	18	17	2.59	5.6%
1996	45	45	18	18	2.50	0.0%
1997	45	45	18	18	2.50	0.0%
1998	44	44	18	18	2.44	0.0%
1999	43	43	18	18	2.39	0.0%
2000*	42	42	18	18	2.33	0.0%
2001	43	43	18	18	2.39	0.0%
2002	44	44	18	18	2.44	0.0%
2003	45	45	18	18	2.50	0.0%
2004	46	46	18	18	2.56	0.0%
2005	47	47	18	18	2.61	0.0%
2006	45	45	18	17	2.65	5.6%
2007	46	46	18	17	2.71	5.6%
2008	47	47	18	17	2.76	5.6%
2009	48	48	18	17	2.82	5.6%
2010*	52	52	19	18	2.89	5.3%
2011	52	52	19	18	2.89	5.3%
2012	52	52	19	18	2.89	5.3%
2013	52	52	19	18	2.89	5.3%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Lake Grove Water District

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	2,517	2,516	1,100	1,039	2.42	5.5%
1991	2,528	2,527	1,108	1,047	2.41	5.5%
1992	2,520	2,519	1,108	1,047	2.41	5.5%
1993	2,649	2,648	1,167	1,104	2.40	5.4%
1994	2,671	2,670	1,181	1,117	2.39	5.4%
1995	2,741	2,740	1,215	1,150	2.38	5.3%
1996	2,815	2,815	1,251	1,185	2.38	5.3%
1997	2,813	2,813	1,254	1,188	2.37	5.3%
1998	2,813	2,813	1,258	1,192	2.36	5.2%
1999	2,806	2,806	1,258	1,193	2.35	5.2%
2000*	2,804	2,804	1,261	1,196	2.34	5.2%
2001	2,804	2,803	1,264	1,199	2.34	5.1%
2002	2,835	2,833	1,282	1,215	2.33	5.2%
2003	2,833	2,830	1,284	1,217	2.33	5.2%
2004	2,830	2,826	1,287	1,219	2.32	5.3%
2005	2,840	2,835	1,294	1,226	2.31	5.3%
2006	2,837	2,831	1,297	1,228	2.31	5.3%
2007	2,842	2,835	1,303	1,233	2.30	5.4%
2008	2,842	2,834	1,306	1,236	2.29	5.4%
2009	2,839	2,830	1,309	1,238	2.29	5.4%
2010*	2,837	2,827	1,311	1,240	2.28	5.4%
2011	2,857	2,847	1,318	1,247	2.28	5.4%
2012	2,870	2,860	1,323	1,252	2.28	5.4%
2013	2,881	2,871	1,328	1,257	2.28	5.3%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Lorna Water Company

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	257	257	95	92	2.79	3.2%
1991	255	255	95	92	2.77	3.2%
1992	252	252	95	92	2.74	3.2%
1993	250	250	95	92	2.72	3.2%
1994	248	248	95	92	2.70	3.2%
1995	240	240	93	90	2.67	3.2%
1996	238	238	93	90	2.64	3.2%
1997	236	236	93	90	2.62	3.2%
1998	233	233	93	90	2.59	3.2%
1999	231	231	93	90	2.57	3.2%
2000*	229	229	93	90	2.54	3.2%
2001	228	228	93	90	2.53	3.2%
2002	228	228	94	90	2.53	4.3%
2003	227	227	94	90	2.52	4.3%
2004	252	252	104	100	2.52	3.8%
2005	250	249	104	99	2.52	4.8%
2006	249	248	104	99	2.51	4.8%
2007	249	248	104	99	2.51	4.8%
2008	248	247	104	99	2.49	4.8%
2009	248	247	105	99	2.49	5.7%
2010*	247	246	105	99	2.48	5.7%
2011	248	247	105	99	2.49	5.7%
2012	249	248	105	99	2.51	5.7%
2013	249	248	105	99	2.51	5.7%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Lusted Water District

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	986	971	334	329	2.95	1.5%
1991	1,000	985	341	335	2.94	1.8%
1992	999	985	343	336	2.93	2.0%
1993	1,004	990	347	339	2.92	2.3%
1994	1,015	1,001	353	344	2.91	2.5%
1995	1,020	1,006	358	347	2.90	3.1%
1996	1,019	1,006	360	348	2.89	3.3%
1997	1,018	1,005	362	349	2.88	3.6%
1998	1,014	1,001	363	349	2.87	3.9%
1999	1,013	1,001	365	350	2.86	4.1%
2000*	1,009	997	366	350	2.85	4.4%
2001	1,014	1,002	370	353	2.84	4.6%
2002	1,011	1,000	371	354	2.82	4.6%
2003	1,010	999	373	355	2.81	4.8%
2004	1,023	1,012	380	361	2.80	5.0%
2005	1,030	1,019	384	365	2.79	4.9%
2006	1,025	1,015	385	365	2.78	5.2%
2007	1,038	1,028	392	371	2.77	5.4%
2008	1,050	1,040	399	377	2.76	5.5%
2009	1,050	1,041	401	379	2.75	5.5%
2010*	1,049	1,040	403	380	2.74	5.7%
2011	1,056	1,047	404	381	2.75	5.7%
2012	1,062	1,053	405	382	2.76	5.7%
2013	1,069	1,060	407	384	2.76	5.7%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Palatine Hill Water District

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	1,449	1,447	525	512	2.83	2.5%
1991	1,444	1,442	525	510	2.83	2.9%
1992	1,440	1,438	525	508	2.83	3.2%
1993	1,434	1,433	525	506	2.83	3.6%
1994	1,430	1,429	525	504	2.84	4.0%
1995	1,425	1,424	525	502	2.84	4.4%
1996	1,421	1,420	525	500	2.84	4.8%
1997	1,416	1,415	525	498	2.84	5.1%
1998	1,410	1,410	525	496	2.84	5.5%
1999	1,406	1,406	525	494	2.85	5.9%
2000*	1,401	1,401	525	492	2.85	6.3%
2001	1,417	1,417	533	497	2.85	6.8%
2002	1,419	1,419	535	497	2.86	7.1%
2003	1,424	1,424	539	498	2.86	7.6%
2004	1,444	1,444	548	504	2.87	8.0%
2005	1,452	1,452	552	506	2.87	8.3%
2006	1,460	1,460	557	508	2.87	8.8%
2007	1,470	1,470	563	511	2.88	9.2%
2008	1,478	1,478	568	513	2.88	9.7%
2009	1,492	1,492	575	517	2.89	10.1%
2010*	1,503	1,503	581	520	2.89	10.5%
2011	1,515	1,515	582	522	2.90	10.3%
2012	1,522	1,522	583	523	2.91	10.3%
2013	1,531	1,531	584	525	2.92	10.1%

**April 1 census data allocated to area. All other years are July 1 estimates.*

Prepared by Population Research Center, Portland State University

January, 2014

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Pleasant Home Water District

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	1,495	1,474	504	493	2.99	2.2%
1991	1,493	1,474	509	497	2.97	2.4%
1992	1,491	1,473	514	501	2.94	2.5%
1993	1,486	1,470	518	504	2.92	2.7%
1994	1,475	1,460	521	505	2.89	3.1%
1995	1,458	1,445	521	504	2.87	3.3%
1996	1,443	1,432	522	504	2.84	3.4%
1997	1,427	1,417	522	503	2.82	3.6%
1998	1,415	1,407	524	504	2.79	3.8%
1999	1,402	1,395	525	504	2.77	4.0%
2000*	1,393	1,388	528	506	2.74	4.2%
2001	1,394	1,389	529	506	2.75	4.3%
2002	1,395	1,389	531	506	2.75	4.7%
2003	1,396	1,390	532	506	2.75	4.9%
2004	1,394	1,387	533	505	2.75	5.3%
2005	1,403	1,396	537	508	2.75	5.4%
2006	1,407	1,400	540	509	2.75	5.7%
2007	1,405	1,397	540	508	2.75	5.9%
2008	1,417	1,409	546	512	2.75	6.2%
2009	1,427	1,418	550	515	2.75	6.4%
2010*	1,430	1,421	553	516	2.75	6.7%
2011	1,441	1,432	555	518	2.76	6.7%
2012	1,451	1,442	556	520	2.77	6.5%
2013	1,462	1,453	559	523	2.78	6.4%

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Skyview Acres Water Company

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	43	43	15	15	2.87	0.0%
1991	42	42	15	15	2.80	0.0%
1992	42	42	15	15	2.80	0.0%
1993	49	49	18	18	2.72	0.0%
1994	49	49	18	18	2.72	0.0%
1995	48	48	18	18	2.67	0.0%
1996	45	45	18	17	2.65	5.6%
1997	44	44	18	17	2.59	5.6%
1998	43	43	18	17	2.53	5.6%
1999	43	43	18	17	2.53	5.6%
2000*	42	42	18	17	2.47	5.6%
2001	42	42	18	17	2.47	5.6%
2002	42	42	18	17	2.47	5.6%
2003	41	41	18	17	2.41	5.6%
2004	41	41	18	17	2.41	5.6%
2005	38	38	18	16	2.38	11.1%
2006	38	38	18	16	2.38	11.1%
2007	38	38	18	16	2.38	11.1%
2008	38	38	18	16	2.38	11.1%
2009	38	38	18	16	2.38	11.1%
2010*	35	35	17	15	2.33	11.8%
2011	35	35	17	15	2.33	11.8%
2012	35	35	17	15	2.33	11.8%
2013	35	35	17	15	2.33	11.8%

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Two Rivers Water Association

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	17	17	5	4	4.25	20.0%
1991	16	16	5	4	4.00	20.0%
1992	16	16	5	4	4.00	20.0%
1993	15	15	5	4	3.75	20.0%
1994	15	15	5	4	3.75	20.0%
1995	18	18	5	5	3.60	0.0%
1996	17	17	5	5	3.40	0.0%
1997	16	16	5	5	3.20	0.0%
1998	16	16	5	5	3.20	0.0%
1999	18	18	6	6	3.00	0.0%
2000*	20	20	7	7	2.86	0.0%
2001	19	19	7	7	2.71	0.0%
2002	19	19	7	7	2.71	0.0%
2003	18	18	7	7	2.57	0.0%
2004	18	18	7	7	2.57	0.0%
2005	17	17	7	7	2.43	0.0%
2006	16	16	7	7	2.29	0.0%
2007	16	16	7	7	2.29	0.0%
2008	15	15	7	7	2.14	0.0%
2009	15	15	7	7	2.14	0.0%
2010*	14	14	7	7	2.00	0.0%
2011	14	14	7	7	2.00	0.0%
2012	14	14	7	7	2.00	0.0%
2013	14	14	7	7	2.00	0.0%

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Valley View Water District

Estimates for all years based on 2013 boundaries

	Population	Household Population	Housing Units	Households	Persons per Household	Vacancy Rate
1990*	875	875	321	316	2.77	1.6%
1991	873	873	323	318	2.75	1.5%
1992	882	882	329	324	2.72	1.5%
1993	880	880	332	326	2.70	1.8%
1994	886	886	337	331	2.68	1.8%
1995	881	881	338	332	2.65	1.8%
1996	895	895	346	340	2.63	1.7%
1997	887	887	346	340	2.61	1.7%
1998	876	876	346	339	2.58	2.0%
1999	874	874	348	341	2.56	2.0%
2000*	866	866	348	341	2.54	2.0%
2001	867	867	350	342	2.54	2.3%
2002	860	860	350	340	2.53	2.9%
2003	863	863	353	342	2.52	3.1%
2004	866	866	356	344	2.52	3.4%
2005	860	859	356	342	2.51	3.9%
2006	863	862	359	344	2.51	4.2%
2007	868	867	363	347	2.50	4.4%
2008	864	863	364	346	2.49	4.9%
2009	877	876	372	352	2.49	5.4%
2010*	877	876	374	353	2.48	5.6%
2011	883	882	375	354	2.49	5.6%
2012	891	890	377	356	2.50	5.6%
2013	900	899	380	359	2.50	5.5%

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